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**From:** Pratt, Margaret [pratt.margaret@epa.gov]  
**Sent:** 4/22/2016 6:58:20 PM  
**To:** Perovich, Gina [Perovich.Gina@epa.gov]  
**CC:** Hotchkiss, Andrew [Hotchkiss.Andrew@epa.gov]; Subramaniam, Ravi [Subramaniam.Ravi@epa.gov]; Hogan, Karen [Hogan.Karen@epa.gov]  
**Subject:** RE: Request for funding: PAH RPF statistical support  
**Attachments:** PAH Mixtures STAT rev2016 April kh mp.docx; EP-BPA-11-C-0018 IGCE for PAH RPF 2016 April.xlsx  
  
**Importance:** High  
**Flag:** Follow up

Dear Gina,

Given Ravi's comment below, and the fact that we are discussing a detail of wording in the TO and not of change in proposed cost, please review the draft task order requesting further (and, hopefully, final) statistical support from SRC for the PAH mixtures revision. As a reminder, SRC has been utilized exclusively for this project, they are very familiar with the methodology, and this TO simply is to request funding to obtain statistical support for the remaining datasets and incorporate the resulting data into the draft document.

**Ex. 5 Deliberative Process (DP)**

Please let me know if you have questions or comments.

Thanks!  
Margaret

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**From:** Subramaniam, Ravi  
**Sent:** Friday, April 22, 2016 2:12 PM  
**To:** Hogan, Karen <Hogan.Karen@epa.gov>; Pratt, Margaret <pratt.margaret@epa.gov>  
**Cc:** Hotchkiss, Andrew <Hotchkiss.Andrew@epa.gov>; Perovich, Gina <Perovich.Gina@epa.gov>  
**Subject:** RE: Request for funding: PAH RPF statistical support

Hi All

I am crashing on a formaldehyde related urgent request pertaining to a rule-making. I may get to this today before I leave but I am also fast running out of time. If not, please address this issue appropriately and send to Gina. Looks like you have given it enough thought. I don't need to review the actual text. Thanks, and copying Gina so she knows.

--Ravi.

Ravi Subramaniam, PhD / Chief (acting), Toxic Effects Branch-IRIS, NCEA-ORD, EPA.  
Room PYS-11782/ Ph: (703) 347-8606

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**From:** Hogan, Karen  
**Sent:** Friday, April 22, 2016 2:06 PM  
**To:** Pratt, Margaret <pratt.margaret@epa.gov>; Subramaniam, Ravi <Subramaniam.Ravi@epa.gov>  
**Cc:** Hotchkiss, Andrew <Hotchkiss.Andrew@epa.gov>  
**Subject:** RE: Request for funding: PAH RPF statistical support

In case Ravi can't get to this before he leaves, I'll chime in that the highlighted text is what we've been using and probably sufficient, although it is somewhat broad-brush and doesn't connect the dots in an obvious way. But if the SRC proposal is the only place the confidence interval method is covered, it would be clearer to repeat it in that specific task. We are confident SRC knows what to do, but this would avoid others getting caught up in this as well.

Karen

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**From:** Pratt, Margaret  
**Sent:** Friday, April 22, 2016 1:41 PM  
**To:** Subramaniam, Ravi <[Subramaniam.Ravi@epa.gov](mailto:Subramaniam.Ravi@epa.gov)>  
**Cc:** Hotchkiss, Andrew <[Hotchkiss.Andrew@epa.gov](mailto:Hotchkiss.Andrew@epa.gov)>; Hogan, Karen <[Hogan.Karen@epa.gov](mailto:Hogan.Karen@epa.gov)>  
**Subject:** RE: Request for funding: PAH RPF statistical support

Ravi,

See the highlighted text under Task 4. Does this adequately address your concerns?

Thanks!

PS – Didn't cc Gina with this since she is probably fully aware that this TO is coming her way soon.

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**From:** Subramaniam, Ravi  
**Sent:** Friday, April 22, 2016 11:45 AM  
**To:** Pratt, Margaret <[pratt.margaret@epa.gov](mailto:pratt.margaret@epa.gov)>  
**Cc:** Hotchkiss, Andrew <[Hotchkiss.Andrew@epa.gov](mailto:Hotchkiss.Andrew@epa.gov)>; Perovich, Gina <[Perovich.Gina@epa.gov](mailto:Perovich.Gina@epa.gov)>; Hogan, Karen <[Hogan.Karen@epa.gov](mailto:Hogan.Karen@epa.gov)>  
**Subject:** RE: Request for funding: PAH RPF statistical support

Hi Margaret:

I do have one point that I just want to ensure you have considered. You have:

## Ex. 5 Deliberative Process (DP)

I will not check my email past 3:45 today. I hope to be working some from India but until that actually happens I am not sure. So in the eventuality you send this back to me only after I leave, please send it directly to Gina after noting in your email to her that you have conferred with Karen and decided appropriately. I do not have any further comments.

--Ravi.

Ravi Subramaniam, PhD / Chief (acting), Toxic Effects Branch-IRIS, NCEA-ORD, EPA.  
Room PYS-11782/ Ph: (703) 347-8606

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**From:** Pratt, Margaret  
**Sent:** Friday, April 22, 2016 9:36 AM  
**To:** Subramaniam, Ravi <[Subramaniam.Ravi@epa.gov](mailto:Subramaniam.Ravi@epa.gov)>

**Cc:** Hotchkiss, Andrew <[Hotchkiss.Andrew@epa.gov](mailto:Hotchkiss.Andrew@epa.gov)>; Perovich, Gina <[Perovich.Gina@epa.gov](mailto:Perovich.Gina@epa.gov)>; Hogan, Karen <[Hogan.Karen@epa.gov](mailto:Hogan.Karen@epa.gov)>; Rangel, Jorge <[Rangel.Jorge@epa.gov](mailto:Rangel.Jorge@epa.gov)>

**Subject:** FW: Request for funding: PAH RPF statistical support

Hi Ravi,

Got your phone message this morning. If you have no clarifying questions or comments for me regarding this request for funding and, therefore, "approve" of it, I believe the next step is to forward the material to Gina/Deputy Director, along with your statement of approval, for her review.

If I recall correctly, upon approval from Gina's office, we (I) will forward documentation of her approval to RTP finance, who will set aside the funds; I will also forward the and other supporting materials to contracting for their review and fine tuning before sending the package off to SRC.

Let me know if you need more information.

Thanks!  
Margaret

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**From:** Pratt, Margaret

**Sent:** Thursday, April 21, 2016 1:43 PM

**To:** Subramaniam, Ravi <[Subramaniam.Ravi@epa.gov](mailto:Subramaniam.Ravi@epa.gov)>

**Cc:** Hogan, Karen <[Hogan.Karen@epa.gov](mailto:Hogan.Karen@epa.gov)>; Hotchkiss, Andrew <[Hotchkiss.Andrew@epa.gov](mailto:Hotchkiss.Andrew@epa.gov)>; Perovich, Gina <[Perovich.Gina@epa.gov](mailto:Perovich.Gina@epa.gov)>

**Subject:** Request for funding: PAH RPF statistical support

Hi Ravi,

Attached is a proposed Task Order to support a request for funding to acquire statistical and revision support from SRC. this work is a continuation of revision efforts to bring the draft PAH RPF approach into closer compliance with recommendations from the 2011 Science Advisory Board review of the 2010 draft PAH RPF Approach.

## Ex. 5 Deliberative Process (DP)

Please let me know if you have questions or suggestions regarding this request for funds, and whether I should forward this information for further review, or if you will do that yourself.

Thanks!  
Margaret